

INTERNATIONAL SEARCH REPORT

PCT/GB 03/05473

A. CLASS IPC 7	FICATION OF SUBJECT MATTER C07F9/26 C07F9/24	
According t	o International Patent Classification (IPC) or to both national classification and IPC	
B. FIELDS	SEARCHED	
	ocumentation searched (classification system followed by classification symbols) C07F	
Documents	tion searched other than minimum documentation to the extent that such documents are included. In the field	s searched
1	lata base consulted during the international search (name of data base and, where practical, search terms under the control of	sed)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US;	1-15

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Database accession no. 109:149797

& JP 62 212395 A2 (NIPPON ZEON CO., LTD., JAPAN) 18 September 1987 (1987-09-18)

abstract

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance E" earlier document but published on or after the International filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the International filing date but later than the priority date claimed	 *T* later document published after the International filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family 		
Date of the actual completion of the international search 9 March 2004	Date of mailing of the international search report 23/03/2004		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-79) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Beslier, L		



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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HAMAMOTO S. ET AL.: "New approach to the synthesis of deoxyribonucleoside phosphoramidite derivatives" CHEMISTRY LETTERS., no. 8, 1986, pages 1401-1404, XPO02272465 JPCHEMICAL SOCIETY OF JAPAN. TOKYO. the whole document	1–15
X	KRUCZYNSKI L.J. ET AL.: "Phenylfluorophosphoranes: axial-equatorial fluorine exchange in RC6H4PF3H and intermolecular exchange in the PhPF2(H)OMe-MeOH-base system" CANADIAN JOURNAL OF CHEMISTRY., vol. 68, no. 3, 1990, pages 488-491, XP002272466 CANATIONAL RESEARCH COUNCIL. OTTAWA. the whole document	1-15
X	HEINICKE J. ET AL.: "Synthese von o-Halogenphenoxy-, o-Halogenphenylthio- und o-Halogen-methylanilinoderivaten der IVb- und Vb-Elemente" JOURNAL FUER PRAKTISCHE CHEMIE., vol. 325, no. 3, 1983, pages 511-516, XP0008028030 DEWILEY VCH, WEINHEIM. page 511, process (A) and page 514, table 1, first example	1-15
X	NIFANT'EV E.E. ET AL.: "New aspects of the chemistry of pyrrolides of tervalent phosphorus acids" RUSSIAN JOURNAL OF GENERAL CHEMISTRY., vol. 62, no. 7, 20 December 1992 (1992–12–20), pages 1201–1208, XP002272467 USCONSULTANTS BUREAU. Synthesis of compound XIX	1-15
X	KIBARDIN A.M. ET AL.: "Synthesis of ethyl bis(N-butyl-N-isobutenylamido)phosphite and reaction with alpha-chloroacetaldehydes" BULLETIN OF THE ACADEMY OF SCIENCES OF THE USSR. DIVISION OF CHEMICAL SCIENCE., vol. 31, no. 3, 20 September 1982 (1982-09-20), pages 625-627, XP002272468 USCONSULTANTS BUREAU. NEW YORK. preparation of compound (II)	1-15



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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BURGADA R.: "Les réactions du carbonyle avec les aminophosphines X. Effet de substituant dans les réactions d'échange." BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE., no. 1, 1971, pages 136-143, XP002272469 FRSOCIETE FRANCAISE DE CHIMIE. PARIS. page 140, experimental part	1-15
X	MITSUNOBU O. ET AL.: "Preparation of carboxylic esters and phosphoric esters by the activation of alcohols" BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN., vol. 44, no. 12, 1971, pages 3427-3430, XP002272470 JPJAPAN PUBLICATIONS TRADING CO. TOKYO. page 3430, left-hand column, last paragraph	1–15
X	WILK A ET AL: "The 4-oxopentyl group as a labile phosphate/thiophosphate protecting group for synthetic oligodeoxyribonucleotides" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 42, no. 33, 13 August 2001 (2001-08-13), pages 5635-5639, XP004295829 ISSN: 0040-4039 scheme 1	1-15



INTERNA	INTERNATIONAL SEARCH REPORT Information on patent family members				PCT/GB 03/05473	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
JP 62212395	A2	18-09-1987	JP	62212395 A	18-09-1987	